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(54) COPPER BASE ALLOY

(57)Abstract:

PURPOSE: To enhance mechanical strength, elasticity, heat resistance and corrosion resistance of a copper base alloy without losing excellent processability of copper, by adding a specific amount of titanium, tin and zinc to copper.

CONSTITUTION: The composition of a copper base alloy consists of, on a wt% basis, 0.1W1.5 titanium, 0.2W2 tin, 0.05W1 zinc and the remainder of copper. As mentioned above, if titanium and tin are added together, mechanical strength, elasticity and heat resistance are remarkably enhanced. In addition by adding zinc, the oxygen amount in molten copper is reduced. This copper base alloy is availably utilized as a base material for a heat exchanger or a base material for electricity related parts.

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